AA-assignment2 Killer sudoku

s3699777

Qiaochu Wang

4 // gird size

How represented the Killer Sudoku grid?

Compared with ordinary Sudoku, killer Sudoku has a cage constraint, which requires that the sum of Numbers in the cage is equal to a fixed value.

So, based on formats of readFile

```
1 2 3 4 // symbol value
6 // number of cage
5 0,0 0,1//sum Grid one(row, col 1), grid two(row, col 2)
8 1,0 2,0 3,0
3 1,1 2,1
7 0,2 1,2
7 0,3 1,3 2,3
10 2,2 3,1 3,2 3,3
step 1
Use one 1d array & two 2d array save the details
     sum = new int[sumSize]:
     cageRows = new int[sumSize][];
     cageCols = new int[sumSize][];
step 2
Record where you want to sum
for(int i = 0; i < sum.length; i++) {
           str = in.readLine();
           list = str.split(" ");
           int total = Integer.parseInt(list[0]);
           sum[i] = total:
           cageRows[i] = new int[list.length-1];
           cageCols[i] = new int[list.length-1];
           for(int j = 1; j < list.length; j++) {</pre>
                 String[] position = list[j].split(",");
                 cageRows[i][j-1] = Integer.parseInt(position[0]);
                 cageCols[i][j-1] = Integer.parseInt(position[1]);
           }
}
```

The cage information for each row is read in a loop
It is divided into three fields using "Split" —— sum grid1 grid2
Take another loop and store it in the corresponding array